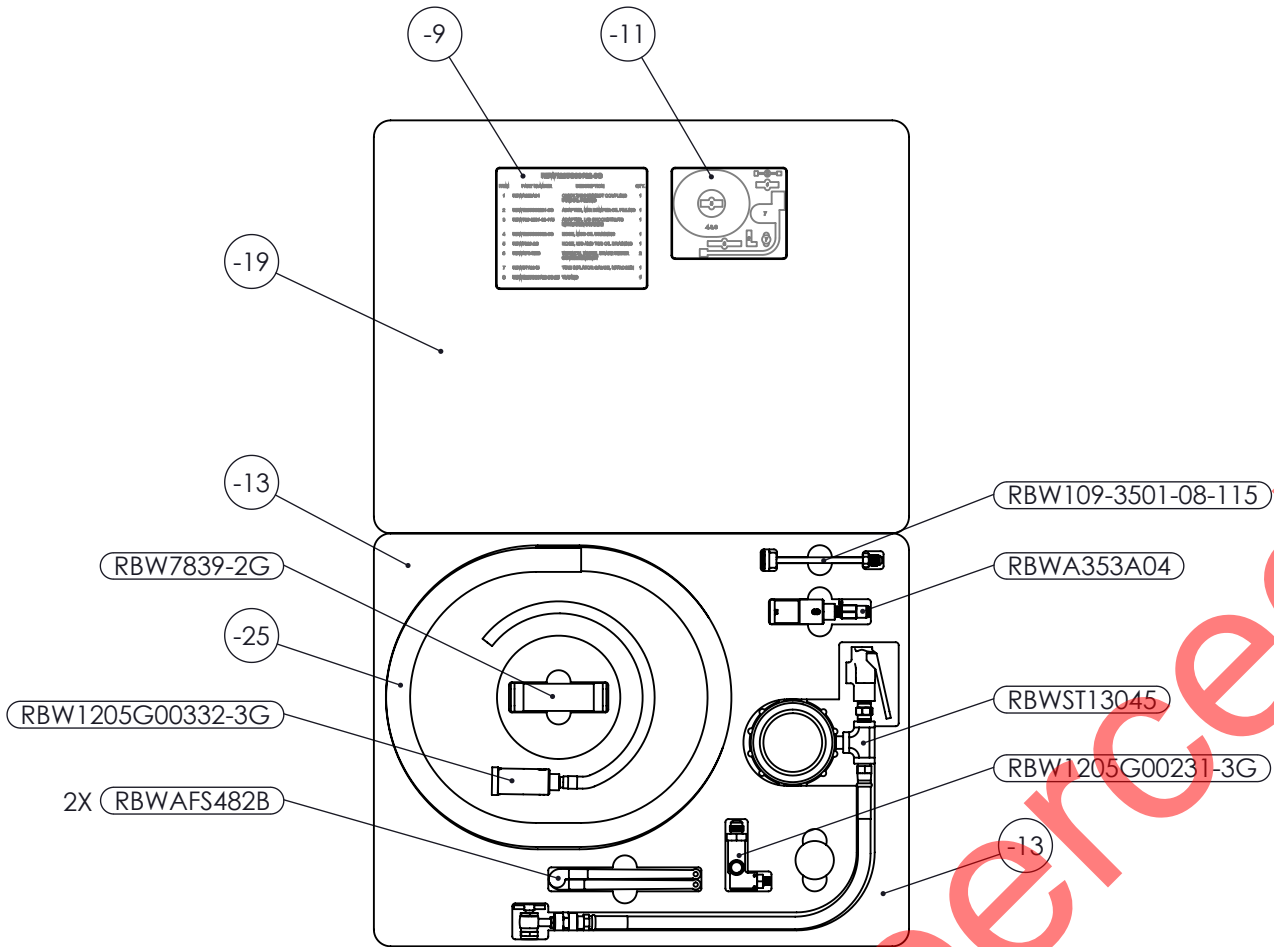


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		ADDED -19 TOOL TOP CUSHION AND PAGE 4.	4/31/2010	WP	RW
2		ADDED RADI TO L SHAPE CUT OUT FOR BETTER FINGER ACQUISITION.	5/6/2010	WP	RW
3		DELETED -1A, -1B, -1C FROM BOTTOM CUSHION & ATTACHED TO HOSE. DELETED Ø6.00 CUTOUT FROM CENTER OF BOTTOM CUSHION. CH'D DEPTH OF HOSE CUT OUT FROM 4.75 TO 3.75. CH'D CENTER POST FROM Ø8.25 TO Ø3.50 TO ALLOW MORE ROOM FOR HOSES. CH'D BOM T/N -1, -3, & -5. CH'D -15 FROM IM2700 CASE. CORRECTED -3 P/N FROM RBW109-3501-08-115.	4/21/2011	RJC	DW
4		SHT 3 UPDATED -7 CUTOUT. SHT. 4 ADDED CUTOUTS FOR TIRE INFLATOR, REMOVED FROM BOX.	12/27/2011	JAG	
5		-11 MODIFIED PLACARD TO MATCH BOTTOM TOOL CUSHION -13 MODIFIED CUTOUT FOR TIRE INFLATOR. ADDED CUTOUT FOR -1, MOVED CUTOUTS FOR FIT.	4/25/2012	JAG	
6		CORRECTED -19 Ø1.20 HOLE CUT OUT LOCATION 180° TO FIT LID PROPERLY.	9/24/2012	RJC	SE
7		-11 MODIFIED PLACARD FOR RBW7839-2G, -13 (FOAM) MODIFIED CUTOUT Ø TO ALLOW FOR RBW7839-2G, -19 CH'D PLACARD CUTOUT DEPTH WAS .07 IS .125	1/17/2013	BIM	SE
8		REDRAWN IN SOLIDWORKS. -9 CORRECTED ITEM -3 T/N WAS RBW109-351-08-115 IS RBW109-3501-08-115. ADDED -21 & -23 RIVET AND WASHER FOR PLACARD. -9 & -11 WAS B/O IS MANUFACTURED. -19 CH'D LOCATION OF CUTOUT ON BACKSIDE.	10/14/2013	JAG	RW
9	17-0122	CH'D DRAWING NUMBER WAS RBW1205G00131-3G IS RBW1205G00132-3G. UPDATED TO NEW STANDARD. -1 REPLACED W/ RBWA353A04. -2 REPLACED W/ RBW1205G00231-3G. -3 REPLACED W/ RBW109-3501-08-115. -4 REPLACED W/ RBW1205G00332-3G. -5 REPLACED W/ RBW7839-2G. -6 REPLACED W/ RBWAFS482B. -7 REPLACED W/ RBWST13045. -9 DELETED DIMS ARIAL SIZE 1/8, ARIAL SIZE 3/16. CH'D DIM WAS (.06) IS .06. CH'D TOLERANCES WAS ±.005 IS ±.010, WAS ±.01 IS ±.03. ADDED ITEM 8 TUBING TO PLACARD. -11 ADDED ITEM #8. CH'D DIM WAS (.06) IS .06. CH'D TOLERANCES WAS ±.005 IS ±.010, WAS ±.01 IS ±.03. -13 REDESIGNED TO FIT -25. CH'D DIMS WAS √.50 IS √1.00, WAS √.63 IS √.91. CH'D B/O REF WAS 5.83 X 14.42 X 18.87 I.R. SPECIALTY IS 8.40 X 17.21 X 20.30 (CASE SOLUTIONS). CH'D MAT'L WAS Y20 BLACK IS ETHAFOAM 220 BLACK. CH'D TOLERANCES WAS ±.005 IS ±.010, WAS ±.01 IS ±.03. CH'D DIM WAS 4X R.50 IS 10X R.50. DELETED DIM 2X R.50 √.50. ADDED DIM √1.00. -15 CH'D B/O REF WAS #APP-1550-E IS #APP-1610-E. -17 REPLACED W/ RB41011. -19 CH'D B/O REF WAS 1.73 X 14.22 X 18.63 I.R. SPECIALTY IS 2.01 X 17.21 X 22.30 (CASE SOLUTIONS). CH'D MAT'L WAS Y20 BLACK IS ETHAFOAM 220 BLACK. REDESIGNED TO FIT IN LARGER CASE. CH'D TOLERANCES WAS ±.005 IS ±.010, WAS ±.01 IS ±.03. -25 TUBING ADDED TO BOM QTY 1.	6/19/2017	DPD	JAG

SEE ATTACHED DEVIATION

ASSY QTY	B/O	Part #	QTY.	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			1	PMC OIL FILLING QUICK DISCONNECT		RBWA353A04	1
			1	ADAPTER, M/R DAMPER OIL FILLING		RBW1205G00231-3G	1
			1	ADAPTER, L/G SHOCKSTRUTS NITROGEN CHARGE		RBW109-3501-08-115	1
			1	HOSE, MGB OIL DRAINING		RBW1205G00332-3G	1
			1	HOSE, IGB & TGB OIL DRAINING		RBW7839-2G	1
			2	WRENCH, WHEEL BRAKE RESER COVER REM/INST		RBWAFS482B	1
			1	TIRE INFLATOR GAUGE, NITROGEN		RBWST13045	1
		-9	1	CONTENTS PLACARD	PLASTIC		2
		-11	1	LOCATION PLACARD	PLASTIC		3
	B/O	-13	1	BOTTOM FOAM	ETHAFOAM 220, BLACK	8.40 X 17.21 X 20.30 (CASE SOLUTIONS)	4
	B/O	-15	1	CASE	PLASTIC	PELICAN #APP-1610-E	N/S
	B/O	-19	1	TOP FOAM	ETHAFOAM 220, BLACK	2.01 X 17.21 X 22.30 (CASE SOLUTIONS)	5
	B/O	-25	1	TUBING	PVC W/ POLYESTER BRAID	Ø3/4 I.D. X Ø1-1/32 O.D. X 10FT, DUROMETER 70A (MCMASTER-CARR #52375K36)	1
	B/O		1	DART PLACARD	ALUMINUM	RB41011	N/S

NOTE:
REF. AGUSTA T/N: 3G1205G00132.

DART AEROSPACE			
TITLE HELICOPTER SERVICING KIT			
DWG NO. RBW1205G00132-3G			REV 9
MAT'L		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT TREAT		.XXX ± .005	FRACTIONS ± 1/8
FINISH		.XX ± .01	ANGLES ±.5°
SPEC		.X ± .1	SURFACES = 125√
DRAWN BY: PERRITT		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: RJC 07/10/2017		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: AA 07/14/2017		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: JL 07/19/2017		USED ON MODEL	
APPROVED: JAG 07/20/2017		AGUSTA AW139	
SCALE 1:8	DATE 4/20/2010	SHEET 1 OF 5	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
8		-9 CORRECTED ITEM -3 T/N WAS RBW109-351-08-115 IS RBW109-3501-08-115.	10/15/2013	CFS	RW
9	17-0122	-9 DELETED DIMS ARIAL SIZE 1/8, ARIAL SIZE 3/16. CH'D DIM WAS (.06) IS .06. CH'D TOLERANCES WAS $\pm .005$ IS $\pm .010$, WAS $\pm .01$ IS $\pm .03$. ADDED ITEM 8 TUBING TO PLACARD.	6/19/2017	DPD	JAG

SEE ATTACHED DEVIATION

4X R.13

RBW1205G00132-3G				
ITEM	PART NUMBER	DESCRIPTION	QTY.	
1	RBWA353A04	QUICK DISCONNECT COUPLING PCM OIL FILLING	1	
2	RBW1205G00231-3G	ADAPTER, M/R DAMPER OIL FILLING	1	
3	RBW109-3501-08-115	ADAPTER, L/G SHOCKSTRUTS NITROGEN CHARGE	1	
4	RBW1205G00332-3G	HOSE, MGB OIL DRAINING	1	
5	RBW7839-2G	HOSE, IGB AND TGB OIL DRAINING	1	
6	RBWAFS482B	WRENCH, WHEEL BRAKE RESER COVER REM/INST	2	
7	RBWST13045	TIRE INFLATOR GAUGE, NITROGEN	1	
8	RBW1205G00132-3G-25	TUBING	1	

BLACK BACKGROUND W/
WHITE LINES & LETTERS

5.00

6.25

.06

RBW1205G00132-3G		
ITEM	PART NUMBER	DESCRIPTION
1	RBWA353A04	QUICK DISCONNECT COUPLING PCM OIL FILLING
2	RBW1205G00231-3G	ADAPTER, M/R DAMPER OIL FILLING
3	RBW109-3501-08-115	ADAPTER, L/G SHOCKSTRUTS NITROGEN CHARGE
4	RBW1205G00332-3G	HOSE, MGB OIL DRAINING
5	RBW7839-2G	HOSE, IGB AND TGB OIL DRAINING
6	RBWAFS482B	WRENCH, WHEEL BRAKE RESER COVER REM/INST
7	RBWST13045	TIRE INFLATOR GAUGE, NITROGEN
8	RBW1205G00132-3G-25	TUBING



TITLE		HELIICOPTER SERVICING KIT	
DWG NO.		RBW1205G00132-3G-9	REV 9
MAT'L PLASTIC		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT TREAT		.XXX \pm .010 FRACTIONS \pm 1/8	
FINISH		.XX \pm .03 ANGLES \pm 1°	
SPEC		.X \pm .1 SURFACES = 125°	
DRAWN BY: SMITH		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: RJC 07/10/2017		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: AA 07/14/2017		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: JL 07/19/2017		USED ON MODEL	
APPROVED: JAG 07/20/2017		AGUSTA AW139	
SCALE 1:2		DATE 10/14/2013	SHEET 2 OF 5

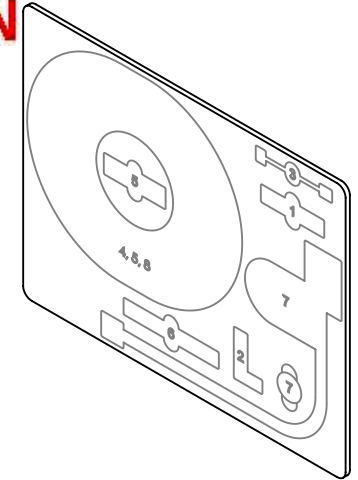
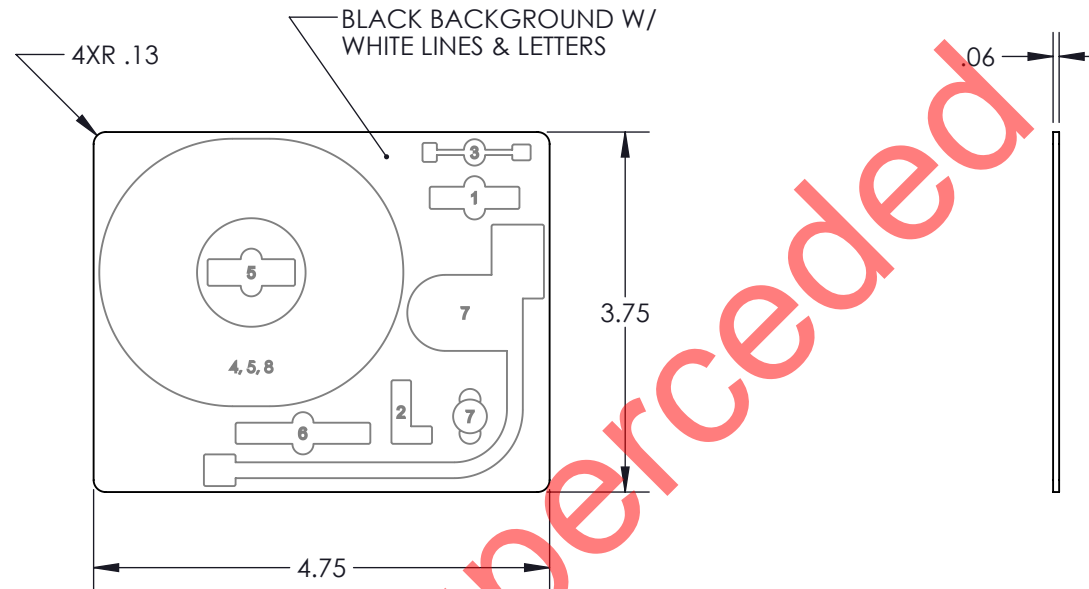
(-9)

CONTENTS PLACARD

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
9	17-0122	-11 ADDED ITEM #8. CH'D DIM WAS (.06) IS .06. CH'D TOLERANCES WAS $\pm .005$ IS $\pm .010$, WAS $\pm .01$ IS $\pm .03$.	6/19/2017	DPD	JAG

SEE ATTACHED DEVIATION



Superceded

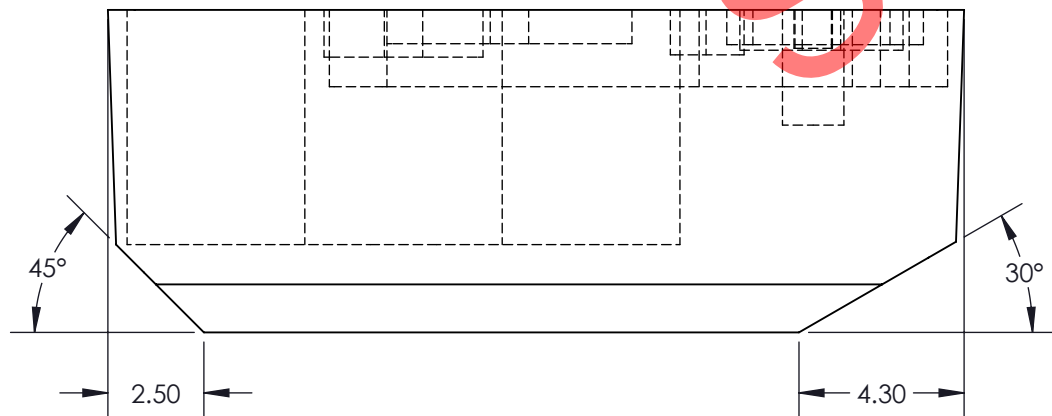
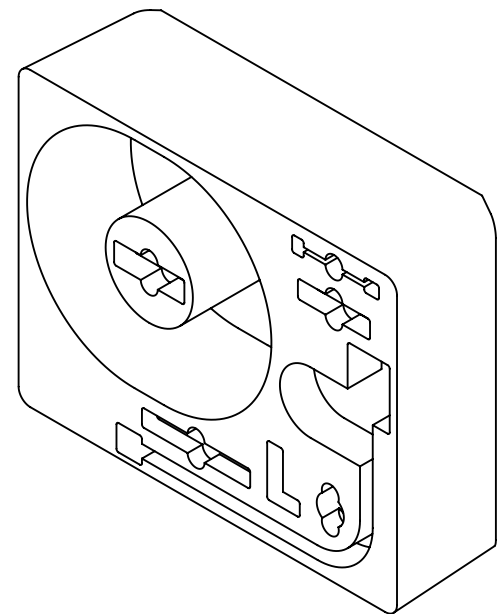
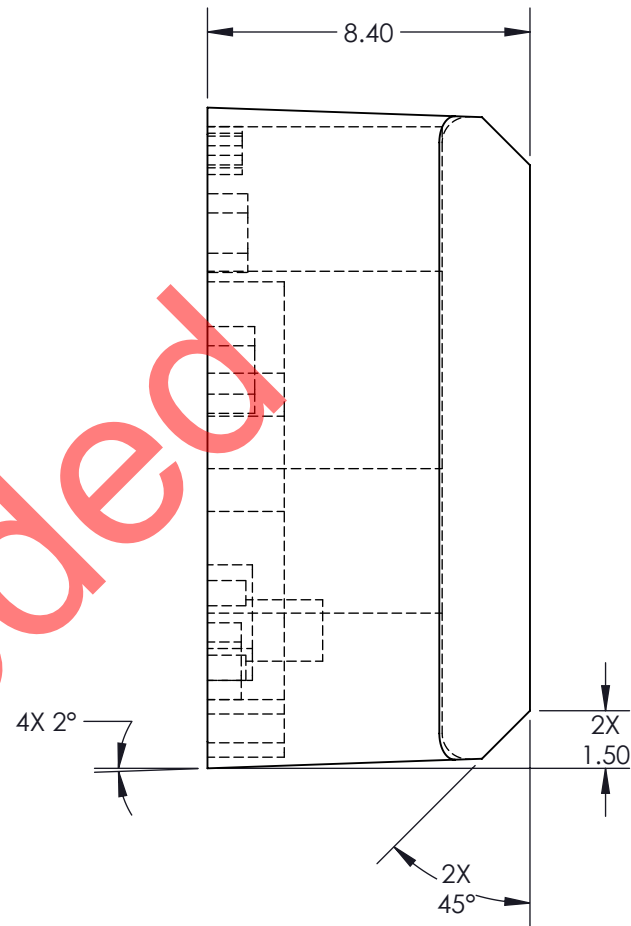
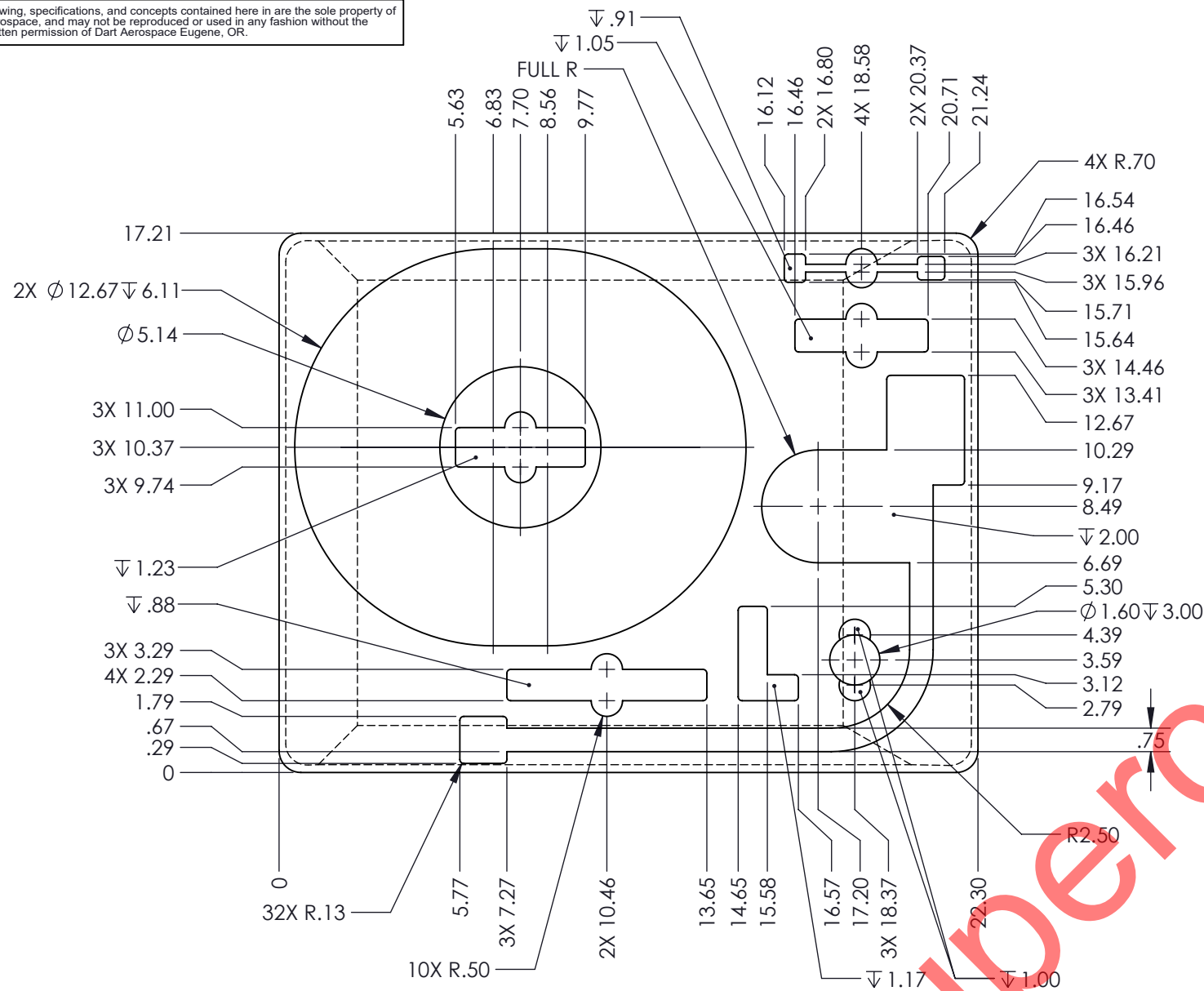
(-11)

LOCATION PLACARD

DART AEROSPACE	
TITLE HELICOPTER SERVICING KIT	
DWG NO. RBW1205G00132-3G-11	REV 9
MAT'L PLASTIC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX \pm .010 FRACTIONS \pm 1/8
FINISH	.XX \pm .03 ANGLES \pm 1°
SPEC	.X \pm .1 SURFACES = 125° ✓
DRAWN BY: SMITH	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: RJC 07/10/2017	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: AA 07/14/2017	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: JL 07/19/2017	USED ON MODEL
APPROVED: JAG 07/20/2017	AGUSTA AW139
SCALE 1:2	DATE 10/14/2013
SHEET 3 OF 5	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
9	17-0122	-13 REDESIGNED TO FIT -25. CH'D DIMS WAS $\nabla .50$ IS $\nabla 1.00$, WAS $\nabla .63$ IS $\nabla .91$. CH'D B/O REF WAS 5.83 X 14.42 X 18.87 I.R. SPECIALTY IS 8.40 X 17.21 X 20.30 (CASE SOLUTIONS). CH'D MAT'L WAS Y20 BLACK IS ETHAFOAM 220 BLACK. CH'D TOLERANCES WAS $\pm .005$ IS $\pm .010$, WAS $\pm .01$ IS $\pm .03$. CH'D DIM WAS 4X R.50 IS 10X R.50. DELETED DIM 2X R.50 $\nabla .50$. ADDED DIM $\nabla 1.00$.	6/19/2017	DPD	JAG



(-13)

BOTTOM FOAM

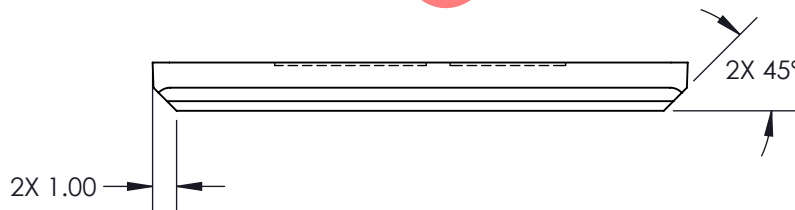
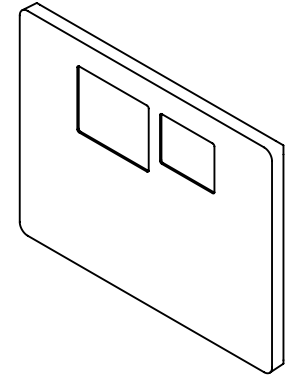
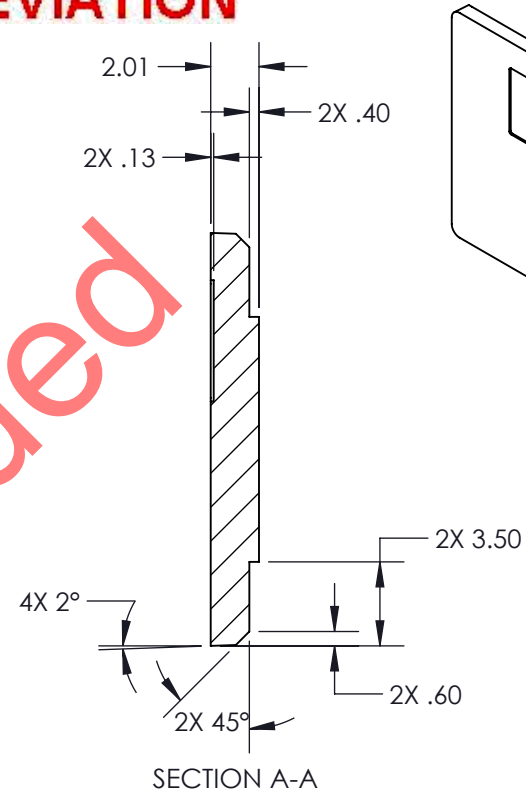
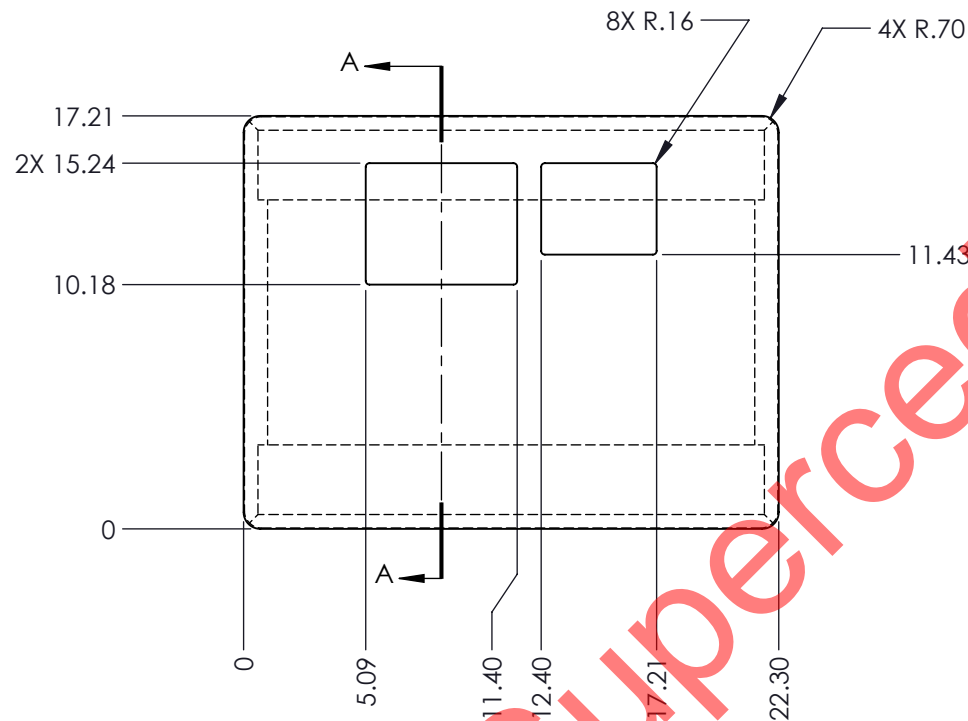
SEE ATTACHED DEVIATION

DART AEROSPACE			
TITLE HELICOPTER SERVICING KIT			
DWG NO. RBW1205G00132-3G-13			REV 9
MAT'L ETHAFOAM 220, BLACK		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT TREAT		.XXX $\pm .010$ FRACTIONS $\pm 1/8$	
FINISH		.XX $\pm .03$ ANGLES $\pm 1^\circ$	
SPEC		.X $\pm .1$ SURFACES = 125/	
DRAWN BY: PERRITT		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: RJC 07/10/2017		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: AA 07/14/2017		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: JL 07/19/2017		USED ON MODEL	
APPROVED: JAG 07/20/2017		AGUSTA AW139	
SCALE 1:5		DATE 4/20/2010	SHEET 4 OF 5

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
9	17-0122	-19 REDESIGNED TO FIT IN LARGER CASE. CH'D TOLERANCES WAS $\pm .005$ IS $\pm .010$, WAS $\pm .01$ IS $\pm .03$. CH'D B/O REF WAS 1.73 X 14.22 X 18.63 I.R. SPECIALTY IS 2.01 X 17.21 X 22.30 (CASE SOLUTIONS). CH'D MAT'L WAS Y20 BLACK IS ETHAFOAM 220 BLACK.	6/19/2017	DPD	JAG

SEE ATTACHED DEVIATION



(-19)

TOP FOAM

DART AEROSPACE	
TITLE HELICOPTER SERVICING KIT	
DWG NO. RBW1205G00132-3G-19	REV 9
MAT'L ETHAFOAM 220, BLACK HEAT TREAT FINISH SPEC DRAWN BY: PERRITT CHECKED: RJC 07/10/2017 OPPTS APPR: AA 07/14/2017 QA APPR: JL 07/19/2017 APPROVED: JAG 07/20/2017	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX \pm .010 FRACTIONS \pm 1/8 .XX \pm .03 ANGLES \pm 1° .X \pm .1 SURFACES = 125° 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL AGUSTA AW139	
SCALE 1:8	DATE 4/20/2010
SHEET 5 OF 5	

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. <u>RBW1205G00132-3G Rev. 9</u>	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/>	DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Cross tube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> </div> <div> Eng. (Non-AW) <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Water Jet <input type="checkbox"/> Supplier <input type="checkbox"/> Quality <input type="checkbox"/> </div> </div>		
Date : _____	Sequence #: _____	QTY Affected : _____		MRB (QSI042) Oct 30, 2018
Description Work Order Deviation		Disposition		Completed By
Kuri-Tech Hose (K010-0608) easily pulls out of Coupling (McMaster Carr 51495K116)		Install a 1.0" long, 0.38" OD, 0.25" ID piece of Stainless Steel into one end of the Kuri-Tech Hose until flush. Attach the modified end of the Kuri-Tech Hose to the Coupling before placing tool into packaging (if applicable). This deviation is acceptable. The fit, form and function of the part will be as originally intended.		Lead hand / Supervisor
				QC / QA Coordinator
Root Cause		FAULT CATEGORY		
<div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input checked="" type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div>		<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Bending <input type="checkbox"/> Crushing <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Mislabeled </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Incomplete/Unclear Instructions <input type="checkbox"/> Drill Holes <input type="checkbox"/> Fit/Function </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain Direction <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Off-set/Set-up </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Outside Tolerance <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Misread </div> </div>		
Other/Details:				